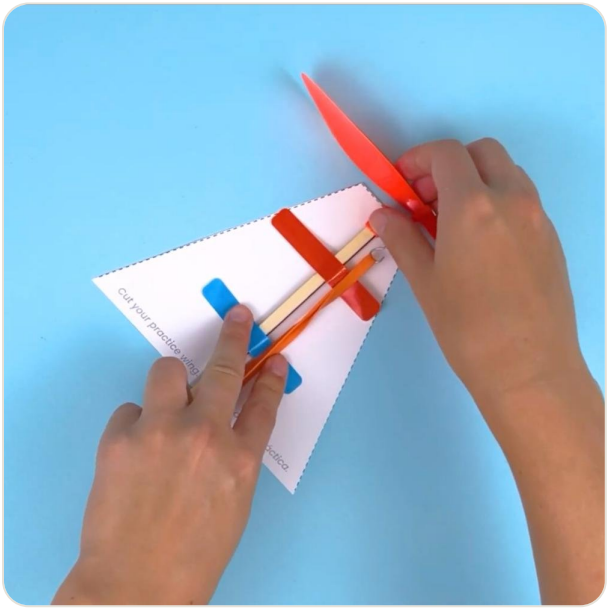
Flying Machines

Rubber band-powered flyers that zoom high and far.



SCREEN-FREE | AGES 6 TO 14 | ABOUT 45 MIN | MAKE AND KEEP

WHAT PARTICIPANTS MAKE

A reusable propeller-driven flyer, with wings campers design and redesign across three versions.

HOW IT WORKS

Campers design a symmetrical fuselage and wings, wind a rubber band to store energy, and practice a two-step launch that releases the propeller first for a stable flight. They build three versions and compare how each flies. It covers elastic potential energy, symmetry, and the design process, and makes a lively family-night activity.

CAMPERS EXPLORE

Elastic potential energy and flight; aerodynamics and symmetry; the engineering design process; iterative wing design; energy transfer (elastic to kinetic)







PACK SIZES

PACK	CAMPERS	SKU
Small Group Pack	10	G1 FLYM 010
Class Pack	25	CL FLYM 025

Every camper gets an individual reclosable kit with a printed visual guide. Scissors optional.

Educator video 6:18 min

Educator guide

Standards connections (from the educator guide): NGSS K-PS3-1, K-2-ETS1-2, 3-PS2-1, 3-5-ETS1-3, MS-PS3-5, MS-ETS1-2. Common Core RI.K-2.7, SL.K-2.1, RI.3-5.7, W.3-5.2, RST.6-8.7, W.6-8.1, 2.MD.A.1, 2.G.A.1, 4.MD.A.2, 4.G.A.3, 7.RP.A.2, 6.G.A.1.